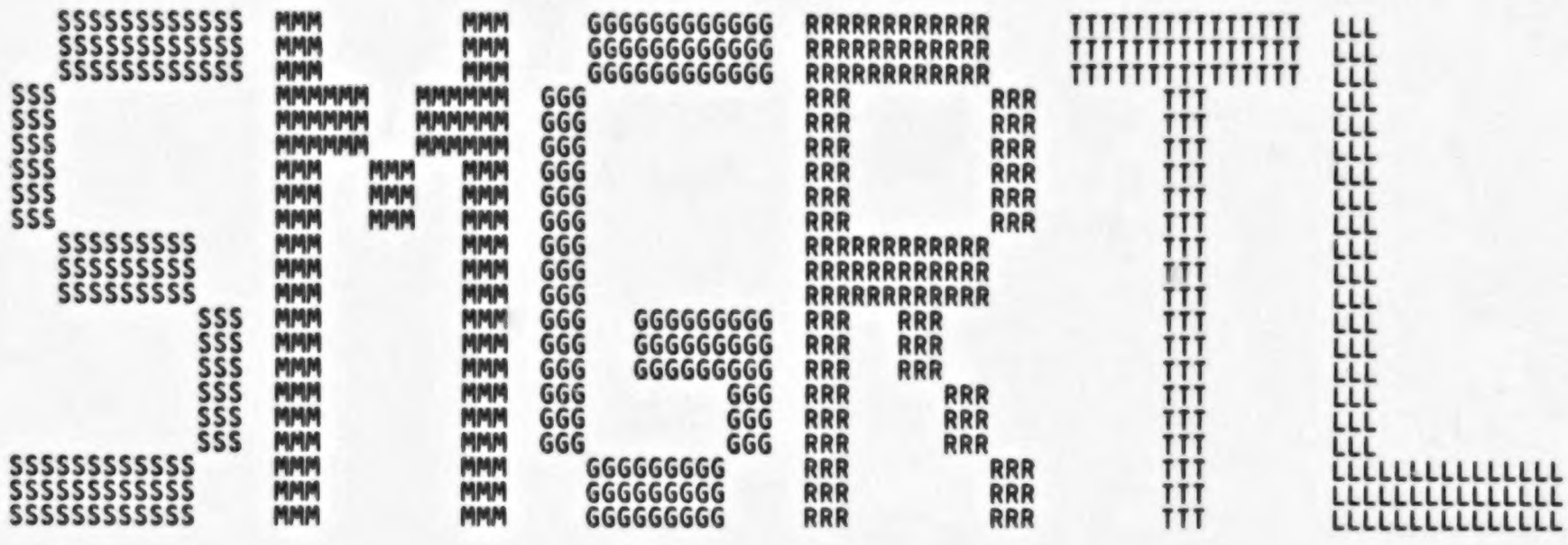
SSSSSSSSSSS MMM MMM GGGGGGGGGGG RRRRRRRRRRR TTTTTTTTTTTTTTT LLL
SSSSSSSSSSS MMM MMM GGGGGGGGGGG RRRRRRRRRRR TTTTTTTTTTTTTTT LLL
SSSSSSSSSSS MMM MMM GGGGGGGGGGG RRRRRRRRRRR TTTTTTTTTTTTTTT LLL
SSS MMMMMM MMMMMM GGG RRR RRR TTT LLL
SSS MMMMMM MMMMMM GGG RRR RRR TTT LLL
SSS MMMMMM MMMMMM GGG RRR RRR TTT LLL
SSS MMM MMM MMM GGG RRR RRR TTT LLL
SSS MMM MMM MMM GGG RRR RRR TTT LLL
SSS MMM MMM MMM GGG RRR RRR TTT LLL
SSSSSSSSS MMM MMM GGG RRRRRRRRRRR TTT LLL
SSSSSSSSS MMM MMM GGG RRRRRRRRRRR TTT LLL
SSSSSSSSS MMM MMM GGG RRRRRRRRRRR TTT LLL
SSS MMM MMM GGG GGGGGGGGG RRR RRR TTT LLL
SSS MMM MMM GGG GGGGGGGGG RRR RRR TTT LLL
SSS MMM MMM GGG GGGGGGGGG RRR RRR TTT LLL
SSS MMM MMM GGG GGG RRR RRR TTT LLL
SSS MMM MMM GGG GGG RRR RRR TTT LLL
SSS MMM MMM GGG GGG RRR RRR TTT LLL
SSSSSSSSSSS MMM MMM GGGGGGGGG RRR RRR TTT LLLLLLLLLLLLLLL
SSSSSSSSSSS MMM MMM GGGGGGGGG RRR RRR TTT LLLLLLLLLLLLLLL
SSSSSSSSSSS MMM MMM GGGGGGGGG RRR RRR TTT LLLLLLLLLLLLLLL

```
  SSSSSSSS  MM      MM   GGGGGGGG  NN      NN  UU      UU  MM      MM  TTTTTTTTTT    AAAAAA    BBBBBBBB
  SSSSSSSS  MM      MM   GGGGGGGG  NN      NN  UU      UU  MM      MM  TTTTTTTTTT    AAAAAA    BBBBBBBB
SS          MMMM  MMMM  GG        NN      NN  UU      UU  MMMM  MMMM      TT       AA  AA    BB      BB
SS          MMMM  MMMM  GG        NN      NN  UU      UU  MMMM  MMMM      TT       AA  AA    BB      BB
SS          MM  MM  MM  GG        NNNN    NN  UU      UU  MM  MM  MM      TT       AA  AA    BB      BB
SS          MM  MM  MM  GG        NNNN    NN  UU      UU  MM  MM  MM      TT       AA  AA    BB      BB
  SSSSSS    MM      MM  GG        NN  NN  NN  UU      UU  MM      MM      TT       AA  AA    BBBBBBBB
  SSSSSS    MM      MM  GG        NN  NN  NN  UU      UU  MM      MM      TT       AA  AA    BBBBBBBB
        SS  MM      MM  GG  GGGGGG  NN    NNNN  UU      UU  MM      MM      TT       AAAAAAAAAA  BB      BB
        SS  MM      MM  GG  GGGGGG  NN    NNNN  UU      UU  MM      MM      TT       AAAAAAAAAA  BB      BB
        SS  MM      MM  GG      GG  NN      NN  UU      UU  MM      MM      TT       AA  AA    BB      BB
        SS  MM      MM  GG      GG  NN      NN  UU      UU  MM      MM      TT       AA  AA    BB      BB
SSSSSSSS    MM      MM    GGGGGG    NN      NN  UUUUUUUUUU  MM      MM      TT       AA  AA    BBBBBBBB
SSSSSSSS    MM      MM    GGGGGG    NN      NN  UUUUUUUUUU  MM      MM      TT       AA  AA    BBBBBBBB

LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL      IIIIII    SSSSSSSS
LLLLLLLLLL      IIIIII    SSSSSSSS
```

```
;     1          0001  0 MODULE SMG$NUMERIC_TABLES( %TITLE 'TPARSE tables for numeric capabilities'
;     2          0002  0                     IDENT = '1-003'          ! File: SMGNUMTAB.B32 Edit: PLL1003
;     3          0003  0                     ) =
;     4          0004  1 BEGIN
;     5          0005  1 !
;     6          0006  1 !*****************************************************************************
;     7          0007  1 !*                                                                           *
;     8          0008  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
;     9          0009  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                    *
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;    13          0013  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE  *
;    14          0014  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER   *
;    15          0015  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY   *
;    16          0016  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY   *
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;    18          0018  1 !*                                                                           *
;    19          0019  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
;    20          0020  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
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;    22          0022  1 !*                                                                           *
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;    24          0024  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                   *
;    25          0025  1 !*                                                                           *
;    26          0026  1 !*                                                                           *
;    27          0027  1 !*****************************************************************************
;    28          0028  1 !
;    29          0029  1
;    30          0030  1 !++
;    31          0031  1 ! FACILITY:     Screen Management
;    32          0032  1 !
;    33          0033  1 ! ABSTRACT:
;    34          0034  1 !
;    35          0035  1 !       This module contains the LIB$TPARSE state tables used to parse
;    36          0036  1 !       numeric capabilities in an ascii TERMTABLE.TXT file.
;    37          0037  1 !
;    38          0038  1 ! ENVIRONMENT:  User mode - AST reentrant
;    39          0039  1 !
;    40          0040  1 ! AUTHOR: P. Levesque CREATION DATE: 30-Jan-1984
;    41          0041  1 !
;    42          0042  1 ! MODIFIED BY:
;    43          0043  1 !
;    44          0044  1 ! 1-001 - Original.  PLL 30-Jan-1984
;    45          0045  1 ! 1-002 - Allow comments on lines not terminated by comma.  PLL 15-Mar-1984
;    46          0046  1 ! 1-003 - Add frame capability.  PLL 29-Mar-1984
;    47          0047  1 !--
;    48          0048  1
```

```
;    50          0049  1 %SBTTL 'Declarations'
;    51          0050  1 !
;    52          0051  1 ! SWITCHES:
;    53          0052  1 !
;    54          0053  1
;    55          0054  1 !
;    56          0055  1 ! LINKAGES:
;    57          0056  1 !
;    58          0057  1 !       NONE
;    59          0058  1 !
;    60          0059  1 ! TABLE OF CONTENTS:
;    61          0060  1 !
;    62          0061  1
;    63          0062  1 FORWARD ROUTINE
;    64          0063  1         CONVERT_NUMERIC,                ! convert ascii to binary integer
;    65          0064  1         NOT_NUMERIC;                    ! signal an unknown capability name
;    66          0065  1
;    67          0066  1 !
;    68          0067  1 ! INCLUDE FILES:
;    69          0068  1 !
;    70          0069  1
;    71          0070  1 REQUIRE 'RTLIN:SMGPROLOG';              ! Defines psects, macros, etc.
;    72          0148  1
;    73          0149  1 LIBRARY 'RTLML:SMGTPALIB';              ! Definitions and macros used
;    74          0150  1                                         ! to create TERMTABLE.EXE
;    75          0151  1 LIBRARY 'RTLTPAMAC';                    ! TPARSE library of macros
;    76          0152  1
;    77          0153  1 !
;    78          0154  1 ! EQUATED SYMBOLS:
;    79          0155  1 !
;    80          0156  1 !       NONE
;    81          0157  1 !
;    82          0158  1 ! FIELDS:
;    83          0159  1 !
;    84          0160  1 !       NONE
;    85          0161  1 !
;    86          0162  1 ! PSECTS:
;    87          0163  1 !
;    88          0164  1
;    89          0165  1 !
;    90          0166  1 ! EXTERNAL REFERENCES:
;    91          0167  1 !
;    92          0168  1 EXTERNAL ROUTINE
;    93          0169  1         OTS$CVT_TI_L,                   ! convert ascii digits to integer
;    94          0170  1         SMG$$BLANKS_OFF,                ! turn off flag to process blanks
;    95          0171  1         SMG$$FLUSH_NUMERIC,             ! flush numeric value to data area
;    96          0172  1         SMG$$MISSING_END,               ! signal error
;    97          0173  1         SMG$$NEXT_RECORD,               ! get next record from TERMTABLE.TXT
;    98          0174  1         SMG$$SAVE_TOKEN_STRING,         ! store ptr & count for token
;    99          0175  1         SMG$$STORE_CAP_MASK,            ! remember capability number
;   100          0176  1         SMG$$SYNTAX_ERROR;              ! signal syntax error
;   101          0177  1
;   102          0178  1 EXTERNAL
;   103          0179  1         SMG$_ERRAT_LIN,                 ! error in line n at or near 'x'
;   104          0180  1         SMG$_MISTERNAM,                 ! missing terminal name
;   105          0181  1         SMG$_NOTNUMCAP,                 ! not a numeric capability
;   106          0182  1         SMG$_SYNERR;                    ! syntax error
```

```
;  107          0183  1
;  108          0184  1 EXTERNAL
;  109          0185  1         SMG$$MASK_ADR,                  ! used by TPARSE action routines
;  110          0186  1         SMG$$CURRENT_LINE;              ! current input line - maintained
;  111          0187  1                                         ! for error messages
;  112          0188  1 !
;  113          0189  1 ! OWN STORAGE:
;  114          0190  1 !
;  115          0191  1 !       NONE
```

```
;  117          0192  1 %SBTTL 'SMG$$NUMERIC_TABLES - TPARSE tables for numeric capabilities'
;  118          0193  1 !++
;  119          0194  1 ! FUNCTIONAL DESCRIPTION:
;  120          0195  1 !
;  121          0196  1 !       The following are the state tables used to parse numeric
;  122          0197  1 !       capabilities in a terminal definition.
;  123          0198  1 !
;  124          0199  1 !--
;  125          0200  1
;  126          0201  1 $INIT_STATE (SMG$$A_NUMERIC_STATES, SMG$$A_NUMERIC_KEYWDS);
;  127          0202  1                                 ! set up state tables, key words
;  128          0203  1
;  129          0204  1 !+
;  130          0205  1 ! Begin scanning loop.  Look for the start of a capability.
;  131          0206  1 ! Skip over blanks and comments.
;  132          0207  1 !-
;  133          0208  1
;  134        P 0209  1 $STATE (BEGIN_SCAN,
;  135        P 0210  1     ((END_OF_LINE), BEGIN_SCAN, SMG$$NEXT_RECORD),
;  136        P 0211  1     ('!', BEGIN_SCAN, SMG$$NEXT_RECORD),
;  137        P 0212  1     ((CAPABILITY), BEGIN_SCAN, SMG$$BLANKS_OFF),
;  138        P 0213  1     (TPA$_LAMBDA, TPA$_EXIT)
;  139          0214  1     );
;  140          0215  1
;  141          0216  1 !+
;  142          0217  1 ! This state indicates the end of a line.  A comment also signals the
;  143          0218  1 ! end of a line.
;  144          0219  1 !-
;  145          0220  1
;  146        P 0221  1 $STATE (END_OF_LINE,
;  147        P 0222  1     (TPA$_EOS, TPA$_EXIT),
;  148        P 0223  1     ('!', TPA$_EXIT),
;  149        P 0224  1     (TPA$_LAMBDA, TPA$_FAIL)
;  150          0225  1     );
;  151          0226  1
;  152          0227  1 !+
;  153          0228  1 ! Find the capability name and determine if it's one that we expect.
;  154          0229  1 ! The string up to the '=' sign should be the capability name.
;  155          0230  1 !-
;  156          0231  1
;  157        P 0232  1 $STATE (CAPABILITY,
;  158        P 0233  1     ((NUMERIC_NAME), EQUALS_NUMERIC, SMG$$BLANKS_OFF),
;  159        P 0234  1     ('END', TPA$_FAIL),
;  160        P 0235  1     ('BOOLEAN', TPA$_FAIL),
;  161        P 0236  1     ('NUMERIC', BEGIN_SCAN),
;  162        P 0237  1     ('STRING', TPA$_FAIL),
;  163        P 0238  1     ('REQUIRE', TPA$_FAIL, SMG$$MISSING_END),
;  164        P 0239  1     ('NAME', TPA$_FAIL, SMG$$MISSING_END),
;  165        P 0240  1     (TPA$_SYMBOL, , NOT_NUMERIC)
;  166          0241  1     );
;  167          0242  1
;  168          0243  1 !+
;  169          0244  1 ! Check for a numeric name here.
;  170          0245  1 !-
;  171          0246  1
;  172        P 0247  1 $STATE (NUMERIC_NAME,
;  173        P 0248  1     ('COLUMNS', TPA$_EXIT, , SMG$K_COLUMNS, SMG$$MASK_ADR),
```

```
;  174          P 0249  1      ('CR_FILL', TPA$_EXIT, , SMG$K_CR_FILL, SMG$$MASK_ADR),
;  175          P 0250  1      ('FRAME', TPA$_EXIT, , SMG$K_FRAME, SMG$$MASK_ADR),
;  176          P 0251  1      ('LF_FILL', TPA$_EXIT, , SMG$K_LF_FILL, SMG$$MASK_ADR),
;  177          P 0252  1      ('NUMBER_FN_KEYS', TPA$_EXIT, , SMG$K_NUMBER_FN_KEYS, SMG$$MASK_ADR),
;  178          P 0253  1      ('ROWS', TPA$_EXIT, , SMG$K_ROWS, SMG$$MASK_ADR),
;  179          P 0254  1      ('WIDE_SCREEN_COLUMNS', TPA$_EXIT, , SMG$K_WIDE_SCREEN_COLUMNS, SMG$$MASK_ADR),
;  180          P 0255  1      ('PRIVATE_NUM_1', TPA$_EXIT, , SMG$K_PRIVATE_NUM_1, SMG$$MASK_ADR),
;  181          P 0256  1      ('PRIVATE_NUM_2', TPA$_EXIT, , SMG$K_PRIVATE_NUM_2, SMG$$MASK_ADR),
;  182          P 0257  1      ('PRIVATE_NUM_3', TPA$_EXIT, , SMG$K_PRIVATE_NUM_3, SMG$$MASK_ADR),
;  183          P 0258  1      ('PRIVATE_NUM_4', TPA$_EXIT, , SMG$K_PRIVATE_NUM_4, SMG$$MASK_ADR),
;  184          P 0259  1      ('PRIVATE_NUM_5', TPA$_EXIT, , SMG$K_PRIVATE_NUM_5, SMG$$MASK_ADR),
;  185          P 0260  1      ('PRIVATE_NUM_6', TPA$_EXIT, , SMG$K_PRIVATE_NUM_6, SMG$$MASK_ADR),
;  186          P 0261  1      ('PRIVATE_NUM_7', TPA$_EXIT, , SMG$K_PRIVATE_NUM_7, SMG$$MASK_ADR),
;  187          P 0262  1      ('PRIVATE_NUM_8', TPA$_EXIT, , SMG$K_PRIVATE_NUM_8, SMG$$MASK_ADR),
;  188          P 0263  1      ('PRIVATE_NUM_9', TPA$_EXIT, , SMG$K_PRIVATE_NUM_9, SMG$$MASK_ADR),
;  189          P 0264  1      ('PRIVATE_NUM_10', TPA$_EXIT, , SMG$K_PRIVATE_NUM_10, SMG$$MASK_ADR),
;  190          P 0265  1      (TPA$_LAMBDA, TPA$_FAIL)
;  191            0266  1      );
;  192            0267  1
;  193            0268  1  !+
;  194            0269  1  ! Skip over intervening equals sign.
;  195            0270  1  !-
;  196            0271  1
;  197          P 0272  1  $STATE (EQUALS_NUMERIC,
;  198          P 0273  1      ((END_OF_LINE), EQUALS_NUMERIC, SMG$$NEXT_RECORD),
;  199          P 0274  1      ('=', NUMERIC_CAP_VALUE, SMG$$STORE_CAP_MASK),
;  200          P 0275  1      (TPA$_SYMBOL, , SMG$$SYNTAX_ERROR),
;  201          P 0276  1      (TPA$_ANY, , SMG$$SYNTAX_ERROR)
;  202            0277  1      );
;  203            0278  1
;  204            0279  1  !+
;  205            0280  1  ! Get the numeric capability value.
;  206            0281  1  !-
;  207            0282  1
;  208          P 0283  1  $STATE (NUMERIC_CAP_VALUE,
;  209          P 0284  1      ((END_OF_LINE), NUMERIC_CAP_VALUE, SMG$$NEXT_RECORD),
;  210          P 0285  1      ((NUMERIC_CAP), BEGIN_SCAN),
;  211          P 0286  1      (TPA$_SYMBOL, , SMG$$SYNTAX_ERROR),
;  212          P 0287  1      (TPA$_ANY, , SMG$$SYNTAX_ERROR)
;  213            0288  1      );
;  214            0289  1
;  215            0290  1  !+
;  216            0291  1  ! This is a numeric capability.  Convert ascii to binary and store it
;  217            0292  1  ! in TERMTABLE.EXE.
;  218            0293  1  !-
;  219            0294  1
;  220          P 0295  1  $STATE (NUMERIC_CAP,
;  221          P 0296  1      (TPA$_DIGIT, NUMERIC_CAP, SMG$$SAVE_TOKEN_STRING),
;  222          P 0297  1      ((COMMA), TPA$_EXIT, CONVERT_NUMERIC),
;  223          P 0298  1      ((END_OF_LINE), NEW_RECORD, CONVERT_NUMERIC),
;  224          P 0299  1      (TPA$_ANY, , SMG$$SYNTAX_ERROR)
;  225            0300  1      );
;  226            0301  1
;  227          P 0302  1  $STATE (COMMA,
;  228          P 0303  1      (',', TPA$_EXIT, SMG$$BLANKS_OFF),
;  229          P 0304  1      (TPA$_BLANK, COMMA, SMG$$BLANKS_OFF),
;  230          P 0305  1      (TPA$_LAMBDA, TPA$_FAIL)
```

```
;  231          0306  1      );
;  232          0307  1
;  233        P 0308  1 $STATE (NEW_RECORD,
;  234        P 0309  1      (TPA$_LAMBDA, TPA$_EXIT, SMG$$NEXT_RECORD)
;  235          0310  1      );
;  236          0311  1
```

```
;   238          0312  1 %SBTTL 'CONVERT_NUMERIC - Convert ascii to binary integer'
;   239          0313  1 ROUTINE CONVERT_NUMERIC =
;   240          0314  1
;   241          0315  1 !++
;   242          0316  1 ! FUNCTIONAL DESCRIPTION:
;   243          0317  1 !
;   244          0318  1 !       Converts an ascii string to binary integer.  The integer is
;   245          0319  1 !       stored in the location of the current capability data in
;   246          0320  1 !       TERMTABLE.EXE.
;   247          0321  1 !
;   248          0322  1 ! CALLING SEQUENCE:
;   249          0323  1 !
;   250          0324  1 !       status = CONVERT_NUMERIC ()
;   251          0325  1 !
;   252          0326  1 ! FORMAL PARAMETERS:
;   253          0327  1 !
;   254          0328  1 !       NONE
;   255          0329  1 !
;   256          0330  1 ! IMPLICIT INPUTS:
;   257          0331  1 !
;   258          0332  1 !       AP      Points to TPARSE parameter block
;   259          0333  1 !
;   260          0334  1 ! IMPLICIT OUTPUTS:
;   261          0335  1 !
;   262          0336  1 !       NONE
;   263          0337  1 !
;   264          0338  1 ! COMPLETION STATUS:
;   265          0339  1 !
;   266          0340  1 !         SS$_NORMAL
;   267          0341  1 !
;   268          0342  1 ! SIDE EFFECTS:
;   269          0343  1 !
;   270          0344  1 !--
;   271          0345  1
;   272          0346  2 BEGIN
;   273          0347  2
;   274          0348  2     BUILTIN
;   275          0349  2         CALLG,
;   276          0350  2         AP;
;   277          0351  2     MAP
;   278          0352  2         AP : REF BLOCK [,BYTE];
;   279          0353  2
;   280          0354  2 !+
;   281          0355  2 ! If we didn't find any digits, then there is nothing to convert.
;   282          0356  2 !-
;   283          0357  2
;   284          0358  2     IF .AP [PARAM_L_SAVED_TOKENCNT] EQL 0
;   285          0359  2     THEN
;   286          0360  2         RETURN (SS$_NORMAL);
;   287          0361  2
;   288          0362  2 !+
;   289          0363  2 ! If this is not the NAME capability and we have no pointers set up
;   290          0364  2 ! for the terminal definition, then NAME was not the first capability
;   291          0365  2 ! in the definition.  Complain.
;   292          0366  2 !-
;   293          0367  2
;   294          0368  3     BEGIN
```

```
;  295     0369  3     BIND
;  296     0370  3         CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
;  297     0371  3
;  298     0372  3     IF CAP_PTRS EQL 0
;  299     0373  3     THEN
;  300     0374  3         SIGNAL_STOP (SMG$_MISTERNAM);
;  301     0375  3
;  302     0376  3 !+
;  303     0377  3 ! Move the capability data.  The byte count is in the first byte and
;  304     0378  3 ! the actual data follows.
;  305     0379  3 !
;  306     0380  3 ! We must convert the ascii digits to binary.
;  307     0381  3 !-
;  308     0382  3
;  309     0383  4     BEGIN
;  310     0384  4     LOCAL
;  311     0385  4         STATUS,
;  312     0386  4         INPUT_STRING_DESC : BLOCK [8,BYTE];
;  313     0387  4
;  314     0388  4     INPUT_STRING_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
;  315     0389  4     INPUT_STRING_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
;  316     0390  4     INPUT_STRING_DESC [DSC$W_LENGTH] = .AP [PARAM_L_SAVED_TOKENCNT];
;  317     0391  4     INPUT_STRING_DESC [DSC$A_POINTER] = .AP [PARAM_L_SAVED_TOKENSTR];
;  318     0392  4
;  319     0393  5     IF NOT (STATUS = OTS$CVT_TI_L (INPUT_STRING_DESC, AP [TPA$L_NUMBER]))
;  320     0394  4     THEN
;  321     0395  4         SIGNAL_STOP (SMG$_ERRAT_LIN,
;  322     0396  4                      3, .SMG$$CURRENT_LINE,
;  323     0397  4                      .AP [PARAM_L_SAVED_TOKENCNT],
;  324     0398  4                      .AP [PARAM_L_SAVED_TOKENSTR],
;  325     0399  4                      .STATUS);
;  326     0400  4
;  327     0401  4     CALLG (.AP, SMG$$FLUSH_NUMERIC);    ! move value to data area
;  328     0402  4
;  329     0403  3     END;
;  330     0404  3
;  331     0405  3
;  332     0406  2     END;                                ! end of BINDs scope
;  333     0407  2
;  334     0408  2 !+
;  335     0409  2 ! Re-initialize capability string.
;  336     0410  2 !-
;  337     0411  2
;  338     0412  2     AP [PARAM_L_SAVED_TOKENCNT] = 0;
;  339     0413  2     AP [PARAM_L_SAVED_TOKENSTR] = 0;
;  340     0414  2
;  341     0415  2     RETURN (SS$_NORMAL);
;  342     0416  2
;  343     0417  1 END;                                    ! end of routine CONVERT_NUMERIC

                                                        .TITLE  SMG$NUMERIC_TABLES TPARSE tables for numeric ca
;                                                                                  pabilities
                                                        .IDENT  \1-003\
                                                        .PSECT  _LIB$KEY1$,NOWRT,  SHR,  PIC,1
```

```
                                                00000 ;TPA$KEYSTO
                                                U.29:   .BLKB   0
                                        44  4E  45  00000 ;TPA$KEYST
                                                U.31:   .ASCII  \E D\                   ;
                                            FF  00003           .BYTE   -1              ;
                                                00004 ;TPA$KEYSTO
                                                U.34:   .BLKB   0
                                4E  41  45  4C  4F  4F  42  00004 ;TPA$KEYST
                                                U.36:   .ASCII  \BOOLEAN\               ;
                                            FF  0000B           .BYTE   -1              ;
                                                0000C ;TPA$KEYSTO
                                                U.39:   .BLKB   0
                                43  49  52  45  4D  55  4E  0000C ;TPA$KEYST
                                                U.41:   .ASCII  \NUMERIC\               ;
                                            FF  00013           .BYTE   -1              ;
                                                00014 ;TPA$KEYSTO
                                                U.44:   .BLKB   0
                                    47  4E  49  52  54  53  00014 ;TPA$KEYST
                                                U.46:   .ASCII  \STRING\                ;
                                            FF  0001A           .BYTE   -1              ;
                                                0001B ;TPA$KEYSTO
                                                U.49:   .BLKB   0
                                45  52  49  55  51  45  52  0001B ;TPA$KEYST
                                                U.51:   .ASCII  \REQUIRE\               ;
                                            FF  00022           .BYTE   -1              ;
                                                00023 ;TPA$KEYSTO
                                                U.55:   .BLKB   0
                                        45  4D  41  4E  00023 ;TPA$KEYST
                                                U.57:   .ASCII  \NAME\                  ;
                                            FF  00027           .BYTE   -1              ;
                                            FF  00028 ;TPA$KEYFILL
                                                U.63:   .BYTE   -1                      ;
                                                00029 ;TPA$KEYSTO
                                                U.64:   .BLKB   0
                                53  4E  4D  55  4C  4F  43  00029 ;TPA$KEYST
                                                U.66:   .ASCII  \COLUMNS\               ;
                                            FF  00030           .BYTE   -1              ;
                                                00031 ;TPA$KEYSTO
                                                U.71:   .BLKB   0
                                4C  4C  49  46  5F  52  43  00031 ;TPA$KEYST
                                                U.73:   .ASCII  \CR_FILL\               ;
                                            FF  00038           .BYTE   -1              ;
                                                00039 ;TPA$KEYSTO
                                                U.78:   .BLKB   0
                                        45  4D  41  52  46  00039 ;TPA$KEYST
                                                U.80:   .ASCII  \FRAME\                 ;
                                            FF  0003E           .BYTE   -1              ;
                                                0003F ;TPA$KEYSTO
                                                U.85:   .BLKB   0
                                4C  4C  49  46  5F  46  4C  0003F ;TPA$KEYST
                                                U.87:   .ASCII  \LF_FILL\               ;
                                            FF  00046           .BYTE   -1              ;
                                                00047 ;TPA$KEYSTO
                                                U.92:   .BLKB   0
53  59  45  4B  5F  4E  46  5F  52  45  42  4D  55  4E  00047 ;TPA$KEYST
                                                U.94:   .ASCII  \NUMBER_FN_KEYS\        ;
                                            FF  00055           .BYTE   -1              ;
```

```
                                                  00056 ;TPA$KEYSTO
                                                        U.99:   .BLKB   0
                                        53 57 4F 52 00056 ;TPA$KEYST
                                                        U.101:  .ASCII  \ROWS\
                                              FF        0005A           .BYTE   -1
                                                  0005B ;TPA$KEYSTO
                                                        U.106:  .BLKB   0
4C 4F 43 5F 4E 45 45 52 43 53 5F 45 44 49 57      0005B ;TPA$KEYST
                                                        U.108:  .ASCII  \WIDE_SCREEN_COLUMNS\
                                        53 4E 4D 55 0006A
                                              FF        0006E           .BYTE   -1
                                                  0006F ;TPA$KEYSTO
                                                        U.113:  .BLKB   0
      31 5F 4D 55 4E 5F 45 54 41 56 49 52 50      0006F ;TPA$KEYST
                                                        U.115:  .ASCII  \PRIVATE_NUM_1\
                                              FF        0007C           .BYTE   -1
                                                  0007D ;TPA$KEYSTO
                                                        U.120:  .BLKB   0
      32 5F 4D 55 4E 5F 45 54 41 56 49 52 50      0007D ;TPA$KEYST
                                                        U.122:  .ASCII  \PRIVATE_NUM_2\
                                              FF        0008A           .BYTE   -1
                                                  0008B ;TPA$KEYSTO
                                                        U.127:  .BLKB   0
      33 5F 4D 55 4E 5F 45 54 41 56 49 52 50      0008B ;TPA$KEYST
                                                        U.129:  .ASCII  \PRIVATE_NUM_3\
                                              FF        00098           .BYTE   -1
                                                  00099 ;TPA$KEYSTO
                                                        U.134:  .BLKB   0
      34 5F 4D 55 4E 5F 45 54 41 56 49 52 50      00099 ;TPA$KEYST
                                                        U.136:  .ASCII  \PRIVATE_NUM_4\
                                              FF        000A6           .BYTE   -1
                                                  000A7 ;TPA$KEYSTO
                                                        U.141:  .BLKB   0
35 5F 4D 55 4E 5F 45 54 41 56 49 52 50      000A7 ;TPA$KEYST
                                                        U.143:  .ASCII  \PRIVATE_NUM_5\
                                              FF        000B4           .BYTE   -1
                                                  000B5 ;TPA$KEYSTO
                                                        U.148:  .BLKB   0
36 5F 4D 55 4E 5F 45 54 41 56 49 52 50      000B5 ;TPA$KEYST
                                                        U.150:  .ASCII  \PRIVATE_NUM_6\
                                              FF        000C2           .BYTE   -1
                                                  000C3 ;TPA$KEYSTO
                                                        U.155:  .BLKB   0
37 5F 4D 55 4E 5F 45 54 41 56 49 52 50      000C3 ;TPA$KEYST
                                                        U.157:  .ASCII  \PRIVATE_NUM_7\
                                              FF        000D0           .BYTE   -1
                                                  000D1 ;TPA$KEYSTO
                                                        U.162:  .BLKB   0
38 5F 4D 55 4E 5F 45 54 41 56 49 52 50      000D1 ;TPA$KEYST
                                                        U.164:  .ASCII  \PRIVATE_NUM_8\
                                              FF        000DE           .BYTE   -1
                                                  000DF ;TPA$KEYSTO
                                                        U.169:  .BLKB   0
39 5F 4D 55 4E 5F 45 54 41 56 49 52 50      000DF ;TPA$KEYST
                                                        U.171:  .ASCII  \PRIVATE_NUM_9\
                                              FF        000EC           .BYTE   -1
                                                  000ED ;TPA$KEYSTO
```

```
                                                        U.176:  .BLKB   0
    30  31  5F  4D  55  4E  5F  45  54  41  56  49  52  50  000ED ;TPA$KEYST
                                                        U.178:  .ASCII  \PRIVATE_NUM_10\                        ;
                                                                FF  000FB       .BYTE   -1                      ;
                                                                FF  000FC ;TPA$KEYFILL
                                                        U.185:  .BYTE   -1                                      ;

                                                                .PSECT  _LIB$STATE$,NOWRT,  SHR,  PIC,1

                                                    00000 SMG$$A_NUMERIC_STATES::
                                                                .BLKB   0
                                                    00000 BEGIN_SCAN:
                                                                .BLKB   0
                                                 99F8  00000 ;TPA$TYPE
                                                        U.2:    .WORD   -26120                                  ;
                                                 0000*  00002 ;TPA$SUBEXP
                                                        U.4:    .WORD   <<U.3-U.4>-2>                           ;
                                             00000000*  00004 ;TPA$ACTION
                                                        U.5:    .LONG   <<SMG$$NEXT_RECORD-U.5>-4>              ;
                                                 0000*  00008 ;TPA$TARGET
                                                        U.6:    .WORD   <<BEGIN_SCAN-U.6>-2>                    ;
                                                 9021   0000A ;TPA$TYPE
                                                        U.7:    .WORD   -28639                                  ;
                                             00000000*  0000C ;TPA$ACTION
                                                        U.8:    .LONG   <<SMG$$NEXT_RECORD-U.8>-4>              ;
                                                 0000*  00010 ;TPA$TARGET
                                                        U.9:    .WORD   <<BEGIN_SCAN-U.9>-2>                    ;
                                                 99F8   00012 ;TPA$TYPE
                                                        U.10:   .WORD   -26120                                  ;
                                                 0000*  00014 ;TPA$SUBEXP
                                                        U.12:   .WORD   <<U.11-U.12>-2>                         ;
                                             00000000*  00016 ;TPA$ACTION
                                                        U.13:   .LONG   <<SMG$$BLANKS_OFF-U.13>-4>              ;
                                                 0000*  0001A ;TPA$TARGET
                                                        U.14:   .WORD   <<BEGIN_SCAN-U.14>-2>                   ;
                                                 15F6   0001C ;TPA$TYPE
                                                        U.15:   .WORD   5622                                    ;
                                                 FFFF   0001E ;TPA$TARGET
                                                        U.16:   .WORD   -1                                      ;
                                                        00020 ;END_OF_LINE
                                                        U.3:    .BLKB   0
                                                 11F7   00020 ;TPA$TYPE
                                                        U.17:   .WORD   4599                                    ;
                                                 FFFF   00022 ;TPA$TARGET
                                                        U.18:   .WORD   -1                                      ;
                                                 1021   00024 ;TPA$TYPE
                                                        U.19:   .WORD   4129                                    ;
                                                 FFFF   00026 ;TPA$TARGET
                                                        U.20:   .WORD   -1                                      ;
                                                 15F6   00028 ;TPA$TYPE
                                                        U.21:   .WORD   5622                                    ;
                                                 FFFE   0002A ;TPA$TARGET
                                                        U.22:   .WORD   -2                                      ;
                                                        0002C ;CAPABILITY
                                                        U.11:   .BLKB   0
                                                 99F8   0002C ;TPA$TYPE
                                                        U.23:   .WORD   -26120                                  ;
```

```
                                                0000* 0002E ;TPA$SUBEXP
                                                      U.25:   .WORD   <<U.24-U.25>-2>                 ;
                                            00000000* 00030 ;TPA$ACTION
                                                      U.26:   .LONG   <<SMG$$BLANKS_OFF-U.26>-4>      ;
                                                0000* 00034 ;TPA$TARGET
                                                      U.28:   .WORD   <<U.27-U.28>-2>                 ;
                                                1100  00036 ;TPA$TYPE
                                                      U.32:   .WORD   4352                            ;
                                                FFFE  00038 ;TPA$TARGET
                                                      U.33:   .WORD   -2                              ;
                                                1101  0003A ;TPA$TYPE
                                                      U.37:   .WORD   4353                            ;
                                                FFFE  0003C ;TPA$TARGET
                                                      U.38:   .WORD   -2                              ;
                                                1102  0003E ;TPA$TYPE
                                                      U.42:   .WORD   4354                            ;
                                                0000* 00040 ;TPA$TARGET
                                                      U.43:   .WORD   <<BEGIN_SCAN-U.43>-2>           ;
                                                1103  00042 ;TPA$TYPE
                                                      U.47:   .WORD   4355                            ;
                                                FFFE  00044 ;TPA$TARGET
                                                      U.48:   .WORD   -2                              ;
                                                9104  00046 ;TPA$TYPE
                                                      U.52:   .WORD   -28412                          ;
                                            00000000* 00048 ;TPA$ACTION
                                                      U.53:   .LONG   <<SMG$$MISSING_END-U.53>-4>     ;
                                                FFFE  0004C ;TPA$TARGET
                                                      U.54:   .WORD   -2                              ;
                                                9105  0004E ;TPA$TYPE
                                                      U.58:   .WORD   -28411                          ;
                                            00000000* 00050 ;TPA$ACTION
                                                      U.59:   .LONG   <<SMG$$MISSING_END-U.59>-4>     ;
                                                FFFE  00054 ;TPA$TARGET
                                                      U.60:   .WORD   -2                              ;
                                                85F1  00056 ;TPA$TYPE
                                                      U.61:   .WORD   -31247                          ;
                                            00000000V 00058 ;TPA$ACTION
                                                      U.62:   .LONG   <<NOT_NUMERIC-U.62>-4>          ;
                                                      0005C ;NUMERIC_NAME
                                                      U.24:   .BLKB   0
                                                7106  0005C ;TPA$TYPE
                                                      U.67:   .WORD   28934                           ;
                                            00000000* 0005E ;TPA$ADDR
                                                      U.68:   .LONG   <<SMG$$MASK_ADR-U.68>-4>        ;
                                            000000DD  00062 ;TPA$MASK
                                                      U.69:   .LONG   221                             ;
                                                FFFF  00066 ;TPA$TARGET
                                                      U.70:   .WORD   -1                              ;
                                                7107  00068 ;TPA$TYPE
                                                      U.74:   .WORD   28935                           ;
                                            00000000* 0006A ;TPA$ADDR
                                                      U.75:   .LONG   <<SMG$$MASK_ADR-U.75>-4>        ;
                                            000000DE  0006E ;TPA$MASK
                                                      U.76:   .LONG   222                             ;
                                                FFFF  00072 ;TPA$TARGET
                                                      U.77:   .WORD   -1                              ;
                                                7108  00074 ;TPA$TYPE
```

```
                                        U.81:   .WORD   28936                   ;
00000000* 00076 ;TPA$ADDR
                                        U.82:   .LONG   <<SMG$$MASK_ADR-U.82>-4>        ;
000000DF  0007A ;TPA$MASK
                                        U.83:   .LONG   223                     ;
    FFFF  0007E ;TPA$TARGET
                                        U.84:   .WORD   -1                      ;
    7109  00080 ;TPA$TYPE
                                        U.88:   .WORD   28937                   ;
00000000* 00082 ;TPA$ADDR
                                        U.89:   .LONG   <<SMG$$MASK_ADR-U.89>-4>        ;
000000E0  00086 ;TPA$MASK
                                        U.90:   .LONG   224                     ;
    FFFF  0008A ;TPA$TARGET
                                        U.91:   .WORD   -1                      ;
    710A  0008C ;TPA$TYPE
                                        U.95:   .WORD   28938                   ;
00000000* 0008E ;TPA$ADDR
                                        U.96:   .LONG   <<SMG$$MASK_ADR-U.96>-4>        ;
000000E1  00092 ;TPA$MASK
                                        U.97:   .LONG   225                     ;
    FFFF  00096 ;TPA$TARGET
                                        U.98:   .WORD   -1                      ;
    710B  00098 ;TPA$TYPE
                                        U.102:  .WORD   28939                   ;
00000000* 0009A ;TPA$ADDR
                                        U.103:  .LONG   <<SMG$$MASK_ADR-U.103>-4>       ;
000000E2  0009E ;TPA$MASK
                                        U.104:  .LONG   226                     ;
    FFFF  000A2 ;TPA$TARGET
                                        U.105:  .WORD   -1                      ;
    710C  000A4 ;TPA$TYPE
                                        U.109:  .WORD   28940                   ;
00000000* 000A6 ;TPA$ADDR
                                        U.110:  .LONG   <<SMG$$MASK_ADR-U.110>-4>       ;
000000E4  000AA ;TPA$MASK
                                        U.111:  .LONG   228                     ;
    FFFF  000AE ;TPA$TARGET
                                        U.112:  .WORD   -1                      ;
    710D  000B0 ;TPA$TYPE
                                        U.116:  .WORD   28941                   ;
00000000* 000B2 ;TPA$ADDR
                                        U.117:  .LONG   <<SMG$$MASK_ADR-U.117>-4>       ;
000001AF  000B6 ;TPA$MASK
                                        U.118:  .LONG   431                     ;
    FFFF  000BA ;TPA$TARGET
                                        U.119:  .WORD   -1                      ;
    710E  000BC ;TPA$TYPE
                                        U.123:  .WORD   28942                   ;
00000000* 000BE ;TPA$ADDR
                                        U.124:  .LONG   <<SMG$$MASK_ADR-U.124>-4>       ;
000001B0  000C2 ;TPA$MASK
                                        U.125:  .LONG   432                     ;
    FFFF  000C6 ;TPA$TARGET
                                        U.126:  .WORD   -1                      ;
    710F  000C8 ;TPA$TYPE
                                        U.130:  .WORD   28943                   ;
```

```
                    00000000* 000CA ;TPA$ADDR
                                    U.131:  .LONG   <<SMG$$MASK_ADR-U.131>-4>        ;
                    000001B1  000CE ;TPA$MASK
                                    U.132:  .LONG   433                              ;
                        FFFF  000D2 ;TPA$TARGET
                                    U.133:  .WORD   -1                               ;
                        7110  000D4 ;TPA$TYPE
                                    U.137:  .WORD   28944                            ;
                    00000000* 000D6 ;TPA$ADDR
                                    U.138:  .LONG   <<SMG$$MASK_ADR-U.138>-4>        ;
                    000001B2  000DA ;TPA$MASK
                                    U.139:  .LONG   434                              ;
                        FFFF  000DE ;TPA$TARGET
                                    U.140:  .WORD   -1                               ;
                        7111  000E0 ;TPA$TYPE
                                    U.144:  .WORD   28945                            ;
                    00000000* 000E2 ;TPA$ADDR
                                    U.145:  .LONG   <<SMG$$MASK_ADR-U.145>-4>        ;
                    000001B3  000E6 ;TPA$MASK
                                    U.146:  .LONG   435                              ;
                        FFFF  000EA ;TPA$TARGET
                                    U.147:  .WORD   -1                               ;
                        7112  000EC ;TPA$TYPE
                                    U.151:  .WORD   28946                            ;
                    00000000* 000EE ;TPA$ADDR
                                    U.152:  .LONG   <<SMG$$MASK_ADR-U.152>-4>        ;
                    000001B4  000F2 ;TPA$MASK
                                    U.153:  .LONG   436                              ;
                        FFFF  000F6 ;TPA$TARGET
                                    U.154:  .WORD   -1                               ;
                        7113  000F8 ;TPA$TYPE
                                    U.158:  .WORD   28947                            ;
                    00000000* 000FA ;TPA$ADDR
                                    U.159:  .LONG   <<SMG$$MASK_ADR-U.159>-4>        ;
                    000001B5  000FE ;TPA$MASK
                                    U.160:  .LONG   437                              ;
                        FFFF  00102 ;TPA$TARGET
                                    U.161:  .WORD   -1                               ;
                        7114  00104 ;TPA$TYPE
                                    U.165:  .WORD   28948                            ;
                    00000000* 00106 ;TPA$ADDR
                                    U.166:  .LONG   <<SMG$$MASK_ADR-U.166>-4>        ;
                    000001B6  0010A ;TPA$MASK
                                    U.167:  .LONG   438                              ;
                        FFFF  0010E ;TPA$TARGET
                                    U.168:  .WORD   -1                               ;
                        7115  00110 ;TPA$TYPE
                                    U.172:  .WORD   28949                            ;
                    00000000* 00112 ;TPA$ADDR
                                    U.173:  .LONG   <<SMG$$MASK_ADR-U.173>-4>        ;
                    000001B7  00116 ;TPA$MASK
                                    U.174:  .LONG   439                              ;
                        FFFF  0011A ;TPA$TARGET
                                    U.175:  .WORD   -1                               ;
                        7116  0011C ;TPA$TYPE
                                    U.179:  .WORD   28950                            ;
                    00000000* 0011E ;TPA$ADDR
```

```
                                                U.180:  .LONG   <<SMG$$MASK_ADR-U.180>-4>               ;
                                 000001B8  00122 ;TPA$MASK
                                                U.181:  .LONG   440                                     ;
                                     FFFF  00126 ;TPA$TARGET
                                                U.182:  .WORD   -1                                      ;
                                     15F6  00128 ;TPA$TYPE
                                                U.183:  .WORD   5622                                    ;
                                     FFFE  0012A ;TPA$TARGET
                                                U.184:  .WORD   -2                                      ;
                                           0012C ;EQUALS_NUMERIC
                                                U.27:   .BLKB   0
                                     99F8  0012C ;TPA$TYPE
                                                U.186:  .WORD   -26120                                  ;
                                     0000* 0012E ;TPA$SUBEXP
                                                U.187:  .WORD   <<U.3-U.187>-2>                         ;
                                 00000000* 00130 ;TPA$ACTION
                                                U.188:  .LONG   <<SMG$$NEXT_RECORD-U.188>-4>            ;
                                     0000* 00134 ;TPA$TARGET
                                                U.189:  .WORD   <<U.27-U.189>-2>                        ;
                                     903D  00136 ;TPA$TYPE
                                                U.190:  .WORD   -28611                                  ;
                                 00000000* 00138 ;TPA$ACTION
                                                U.191:  .LONG   <<SMG$$STORE_CAP_MASK-U.191>-4>         ;
                                     0000* 0013C ;TPA$TARGET
                                                U.193:  .WORD   <<U.192-U.193>-2>                       ;
                                     81F1  0013E ;TPA$TYPE
                                                U.194:  .WORD   -32271                                  ;
                                 00000000* 00140 ;TPA$ACTION
                                                U.195:  .LONG   <<SMG$$SYNTAX_ERROR-U.195>-4>           ;
                                     85ED  00144 ;TPA$TYPE
                                                U.196:  .WORD   -31251                                  ;
                                 00000000* 00146 ;TPA$ACTION
                                                U.197:  .LONG   <<SMG$$SYNTAX_ERROR-U.197>-4>           ;
                                           0014A ;NUMERIC_CAP_VALUE
                                                U.192:  .BLKB   0
                                     99F8  0014A ;TPA$TYPE
                                                U.198:  .WORD   -26120                                  ;
                                     0000* 0014C ;TPA$SUBEXP
                                                U.199:  .WORD   <<U.3-U.199>-2>                         ;
                                 00000000* 0014E ;TPA$ACTION
                                                U.200:  .LONG   <<SMG$$NEXT_RECORD-U.200>-4>            ;
                                     0000* 00152 ;TPA$TARGET
                                                U.201:  .WORD   <<U.192-U.201>-2>                       ;
                                     19F8  00154 ;TPA$TYPE
                                                U.202:  .WORD   6648                                    ;
                                     0000* 00156 ;TPA$SUBEXP
                                                U.204:  .WORD   <<U.203-U.204>-2>                       ;
                                     0000* 00158 ;TPA$TARGET
                                                U.205:  .WORD   <<BEGIN_SCAN-U.205>-2>                  ;
                                     81F1  0015A ;TPA$TYPE
                                                U.206:  .WORD   -32271                                  ;
                                 00000000* 0015C ;TPA$ACTION
                                                U.207:  .LONG   <<SMG$$SYNTAX_ERROR-U.207>-4>           ;
                                     85ED  00160 ;TPA$TYPE
                                                U.208:  .WORD   -31251                                  ;
                                 00000000* 00162 ;TPA$ACTION
                                                U.209:  .LONG   <<SMG$$SYNTAX_ERROR-U.209>-4>           ;
```

```
                        00166 ;NUMERIC_CAP
                              U.203:  .BLKB   0
                91EF    00166 ;TPA$TYPE
                              U.210:  .WORD   -28177                                  ;
           00000000*    00168 ;TPA$ACTION
                              U.211:  .LONG   <<SMG$$SAVE_TOKEN_STRING-U.211>-4>      ;
                0000*   0016C ;TPA$TARGET
                              U.212:  .WORD   <<U.203-U.212>-2>                       ;
                99F8    0016E ;TPA$TYPE
                              U.213:  .WORD   -26120                                  ;
                0000*   00170 ;TPA$SUBEXP
                              U.215:  .WORD   <<U.214-U.215>-2>                       ;
           00000000*    00172 ;TPA$ACTION
                              U.216:  .LONG   <<CONVERT_NUMERIC-U.216>-4>             ;
                FFFF    00176 ;TPA$TARGET
                              U.217:  .WORD   -1                                      ;
                99F8    0017B ;TPA$TYPE
                              U.218:  .WORD   -26120                                  ;
                0000*   0017A ;TPA$SUBEXP
                              U.219:  .WORD   <<U.3-U.219>-2>                         ;
           00000000*    0017C ;TPA$ACTION
                              U.220:  .LONG   <<CONVERT_NUMERIC-U.220>-4>             ;
                0000*   00180 ;TPA$TARGET
                              U.222:  .WORD   <<U.221-U.222>-2>                       ;
                85ED    00182 ;TPA$TYPE
                              U.223:  .WORD   -31251                                  ;
           00000000*    00184 ;TPA$ACTION
                              U.224:  .LONG   <<SMG$$SYNTAX_ERROR-U.224>-4>           ;
                        00188 ;COMMA
                              U.214:  .BLKB   0
                902C    00188 ;TPA$TYPE
                              U.225:  .WORD   -28628                                  ;
           00000000*    0018A ;TPA$ACTION
                              U.226:  .LONG   <<SMG$$BLANKS_OFF-U.226>-4>             ;
                FFFF    0018E ;TPA$TARGET
                              U.227:  .WORD   -1                                      ;
                91F2    00190 ;TPA$TYPE
                              U.228:  .WORD   -28174                                  ;
           00000000*    00192 ;TPA$ACTION
                              U.229:  .LONG   <<SMG$$BLANKS_OFF-U.229>-4>             ;
                0000*   00196 ;TPA$TARGET
                              U.230:  .WORD   <<U.214-U.230>-2>                       ;
                15F6    00198 ;TPA$TYPE
                              U.231:  .WORD   5622                                    ;
                FFFE    0019A ;TPA$TARGET
                              U.232:  .WORD   -2                                      ;
                        0019C ;NEW_RECORD
                              U.22T:  .BLKB   0
                95F6    0019C ;TPA$TYPE
                              U.233:  .WORD   -27146                                  ;
           00000000*    0019E ;TPA$ACTION
                              U.234:  .LONG   <<SMG$$NEXT_RECORD-U.234>-4>            ;
                FFFF    001A2 ;TPA$TARGET
                              U.235:  .WORD   -1                                      ;

                                      .PSECT  _LIB$KEY0$,NOWRT,  SHR,  PIC,1
```

```
                                00000 SMG$$A_NUMERIC_KEYWDS::
                                      .BLKB   0
                                00000 ;TPA$KEY0
                                      U.1:    .BLKB   0
                          0000* 00000 ;TPA$KEY
                                      U.30:   .WORD   <U.29-U.1>                      ;
                          0000* 00002 ;TPA$KEY
                                      U.35:   .WORD   <U.34-U.1>                      ;
                          0000* 00004 ;TPA$KEY
                                      U.40:   .WORD   <U.39-U.1>                      ;
                          0000* 00006 ;TPA$KEY
                                      U.45:   .WORD   <U.44-U.1>                      ;
                          0000* 00008 ;TPA$KEY
                                      U.50:   .WORD   <U.49-U.1>                      ;
                          0000* 0000A ;TPA$KEY
                                      U.56:   .WORD   <U.55-U.1>                      ;
                          0000* 0000C ;TPA$KEY
                                      U.65:   .WORD   <U.64-U.1>                      ;
                          0000* 0000E ;TPA$KEY
                                      U.72:   .WORD   <U.71-U.1>                      ;
                          0000* 00010 ;TPA$KEY
                                      U.79:   .WORD   <U.78-U.1>                      ;
                          0000* 00012 ;TPA$KEY
                                      U.86:   .WORD   <U.85-U.1>                      ;
                          0000* 00014 ;TPA$KEY
                                      U.93:   .WORD   <U.92-U.1>                      ;
                          0000* 00016 ;TPA$KEY
                                      U.100:  .WORD   <U.99-U.1>                      ;
                          0000* 00018 ;TPA$KEY
                                      U.107:  .WORD   <U.106-U.1>                     ;
                          0000* 0001A ;TPA$KEY
                                      U.114:  .WORD   <U.113-U.1>                     ;
                          0000* 0001C ;TPA$KEY
                                      U.121:  .WORD   <U.120-U.1>                     ;
                          0000* 0001E ;TPA$KEY
                                      U.128:  .WORD   <U.127-U.1>                     ;
                          0000* 00020 ;TPA$KEY
                                      U.135:  .WORD   <U.134-U.1>                     ;
                          0000* 00022 ;TPA$KEY
                                      U.142:  .WORD   <U.141-U.1>                     ;
                          0000* 00024 ;TPA$KEY
                                      U.149:  .WORD   <U.148-U.1>                     ;
                          0000* 00026 ;TPA$KEY
                                      U.156:  .WORD   <U.155-U.1>                     ;
                          0000* 00028 ;TPA$KEY
                                      U.163:  .WORD   <U.162-U.1>                     ;
                          0000* 0002A ;TPA$KEY
                                      U.170:  .WORD   <U.169-U.1>                     ;
                          0000* 0002C ;TPA$KEY
                                      U.177:  .WORD   <U.176-U.1>                     ;

                                              .EXTRN  OTS$CVT_TI_L, SMG$$BLANKS_OFF
                                              .EXTRN  SMG$$FLOSH_NUMERIC
                                              .EXTRN  SMG$$MISSING_END
                                              .EXTRN  SMG$$NEXT_RECORD
                                              .EXTRN  SMG$$SAVE_TOKEN_STRING
                                              .EXTRN  SMG$$STORE_CAP_MASK
```

```
                                                        .EXTRN  SMG$$SYNTAX_ERROR
                                                        .EXTRN  SMG$_ERRAT_LIN, SMG$_MISTERNAM
                                                        .EXTRN  SMG$_NOTNUMCAP, SMG$_SYNERR
                                                        .EXTRN  SMG$$MASK_ADR, SMG$$CURRENT_LINE

                                                        .PSECT  _SMG$CODE,NOWRT,  SHR,  PIC,2

                                        0004 00000 CONVERT_NUMERIC:
                                                        .WORD   Save R2                                 ; 0313
                          52 00000000G   00  9E 00002           MOVAB   LIB$STOP, R2
                          5E             08  C2 00009           SUBL2   #8, SP
                                  54     AC  D5 0000C           TSTL    84(AP)                           ; 0358
                                         4E  13 0000F           BEQL    3$
                                  48     AC  D5 00011           TSTL    72(AP)                           ; 0372
                                         09  12 00014           BNEQ    1$
                             00000000G   00  9F 00016           PUSHAB  SMG$_MISTERNAM                   ; 0374
                          62             01  FB 0001C           CALLS   #1, LIB$STOP
                       02 AE      010E   8F  B0 0001F 1$:       MOVW    #270, INPUT_STRING_DESC+2        ; 0388
                          6E          54 AC  B0 00025           MOVW    84(AP), INPUT_STRING_DESC        ; 0390
                       04 AE          58 AC  D0 00029           MOVL    88(AP), INPUT_STRING_DESC+4      ; 0391
                                      1C AC  9F 0002E           PUSHAB  28(AP)                           ; 0393
                                      04 AE  9F 00031           PUSHAB  INPUT_STRING_DESC
                00000000G             00  02 FB 00034           CALLS   #2, OTS$CVT_TI_L
                                      17  50 E8 0003B           BLBS    STATUS, 2$
                                          50 DD 0003E           PUSHL   STATUS                           ; 0399
                                      7E  54 AC 7D 00040        MOVQ    84(AP), -(SP)                    ; 0397
                                   00000000G  00 DD 00044       PUSHL   SMG$$CURRENT_LINE                ; 0396
                                              03 DD 0004A       PUSHL   #3                               ; 0395
                                   00000000G  00 9F 0004C       PUSHAB  SMG$_ERRAT_LIN
                                          62      06 FB 00052   CALLS   #6, LIB$STOP
                00000000G                 00  6C FA 00055 2$:   CALLG   (AP), SMG$$FLUSH_NUMERIC        ; 0401
                                          54  AC 7C 0005C       CLRQ    84(AP)                           ; 0412
                                          50      01 D0 0005F 3$:   MOVL    #1, R0                       ; 0415
                                                  04 00062          RET                                  ; 0417

; Routine Size:  99 bytes,    Routine Base:  _SMG$CODE + 0000
```

```
;  345          0418  1 %SBTTL 'NOT_NUMERIC - signal an unknown capability name'
;  346          0419  1 ROUTINE NOT_NUMERIC =
;  347          0420  1
;  348          0421  1 !++
;  349          0422  1 ! FUNCTIONAL DESCRIPTION:
;  350          0423  1 !
;  351          0424  1 !       We just found an unknown capability name.  It could be a misspelling
;  352          0425  1 !       or it could be a name misplaced under the wrong heading.  Signal an
;  353          0426  1 !       error.
;  354          0427  1 !
;  355          0428  1 ! CALLING SEQUENCE:
;  356          0429  1 !
;  357          0430  1 !       status = NOT_NUMERIC ()
;  358          0431  1 !
;  359          0432  1 ! FORMAL PARAMETERS:
;  360          0433  1 !
;  361          0434  1 !       NONE
;  362          0435  1 !
;  363          0436  1 ! IMPLICIT INPUTS:
;  364          0437  1 !
;  365          0438  1 !       AP      Points to TPARSE parameter block
;  366          0439  1 !
;  367          0440  1 ! IMPLICIT OUTPUTS:
;  368          0441  1 !
;  369          0442  1 !       NONE
;  370          0443  1 !
;  371          0444  1 ! COMPLETION STATUS:
;  372          0445  1 !
;  373          0446  1 !        SS$_NORMAL
;  374          0447  1 !
;  375          0448  1 ! SIDE EFFECTS:
;  376          0449  1 !
;  377          0450  1 !--
;  378          0451  1
;  379          0452  2     BEGIN
;  380          0453  2     BUILTIN
;  381          0454  2         AP;
;  382          0455  2     MAP
;  383          0456  2         AP : REF BLOCK [,BYTE];
;  384          0457  2
;  385          0458  2     SIGNAL_STOP (SMG$_ERRAT_LIN,
;  386          0459  2                  3, .SMG$$CURRENT_LINE,
;  387          0460  2                  .AP [TPA$L_TOKENCNT],
;  388          0461  2                  .AP [TPA$L_TOKENPTR],
;  389          0462  2                  SMG$_NOTNUMCAP)
;  390          0463  2
;  391          0464  1     END;                        ! end of routine NOT_NUMERIC


                                        0000 00000 NOT_NUMERIC:
                                                           .WORD   Save nothing                    ; 0419
                                    00000000G   00  9F 00002       PUSHAB  SMG$_NOTNUMCAP          ; 0458
                                7E        10    AC  7D 00008       MOVQ    16(AP), -(SP)           ; 0460
                                    00000000G   00  DD 0000C       PUSHL   SMG$$CURRENT_LINE       ; 0459
```

```
                                          03  DD 00012          PUSHL   #3                                          ; 0458
                                00000000G 00  9F 00014          PUSHAB  SMG$_ERRAT_LIN                              :
                      00000000G 00            06  FB 0001A     CALLS   #6, LIB$STOP                                :
                                              04  00021         RET                                                 ; 0464

; Routine Size:  34 bytes,    Routine Base:  _SMG$CODE + 0063

;  392          0465  1 !<BLF/PAGE>
```

```
;  394          0466  1 END                                   ! End of module SMG$TPARSE_TABLES
;  395          0467  1
;  396          0468  0 ELUDOM


                                                                .EXTRN  LIB$STOP

;                                PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  _LIB$KEY0$                     46  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(1)
;  _LIB$STATE$                   420  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(1)
;  _LIB$KEY1$                    253  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(1)
;  _SMG$CODE                     133  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)


;                            Library Statistics
;                                        --------- Symbols ---------      Pages       Processing
;       File                             Total    Loaded   Percent       Mapped      Time
;
;  _$255$DUA28:[SYSLIB]STARLET.L32;1      9776        30         0          581       00:00.9
;  _$255$DUA28:[SMGRTL.OBJ]RTLLIB.L32;1     36         0         0            8       00:00.1
;  _$255$DUA28:[SMGRTL.OBJ]SMGLIB.L32;1    469         0         0           38       00:00.4
;  _$255$DUA28:[SMGRTL.OBJ]SMGTPALIB.L32;1
;                                          41         3         7           10       00:00.1
;  _$255$DUA28:[SYSLIB]TPAMAC.L32;1        42        30        71           14       00:00.1



;                                    COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:SMGNUMTAB/OBJ=OBJ$:SMGNUMTAB MSRC$:SMGNUMTAB/UPDATE=(ENH$:SMGNUMTAB
;       )

; Size:          133 code + 719 data bytes
; Run Time:        00:29.1
; Elapsed Time:    01:17.9
; Lines/CPU Min:     965
; Lexemes/CPU-Min: 92540
; Memory Used:  178 pages
; Compilation Complete
```

SMGNUMTAB
LIS

SMGMSGPTR
LIS

SMGSCROLL
LIS

SMGMISC
LIS

SMGMSGTXT
LIS

SMGPUTENC
LIS

SMGPUTTEX
LIS

SMGSIMTRM
LIS

SMGNUMPAR
LIS

SMGPRVINP
LIS